



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|             |                               |   |                    |                  |
|-------------|-------------------------------|---|--------------------|------------------|
| Applicants: | Batakrishna MANDAL            | § | Group Art Unit:    | 3672             |
|             |                               | § |                    |                  |
| Serial No.: | 10/705,184                    | § | Examiner:          | Zakiya N. Walker |
|             |                               | § |                    |                  |
| Filed:      | November 11, 2003             | § | Atty. Docket No.:  | 1391-24708       |
|             |                               | § |                    |                  |
| For:        | Self-Calibrated Ultrasonic    | § | Client Docket No.: | 2001-IP-002918   |
|             | Method of In-Situ Measurement | § |                    |                  |
|             | of Borehole Fluid Acoustic    | § |                    |                  |
|             | Properties                    | § |                    |                  |

**RESPONSE TO OFFICE ACTION OF NOVEMBER 11, 2004**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

January 31, 2005

Dear Sir:

In response to the Office Action dated November 11, 2004, please amend the above-identified application as follows:

**Amendments to the Abstract** begin on page 2 of this paper.

**Amendments to the Specification** begin on page 3 of this paper.

**Amendments to the Claims** are reflected in the listing of claims which begins on page 4 of this paper.

**Remarks/Arguments** begin on page 8 of this paper.